

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants	: Schultz et al.)	Examiner:
)	To Be Assigned
Serial No.	: Continuation of 10/427,145)	
)	Art Unit:
Cnfrm. No.	: To Be Assigned)	To Be Assigned
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Filed	: Herewith)	
)	
For	: INTEGRATED MONOLITHIC)	
	MICROFABRICATED DISPENSING NOZZLE)	
	AND LIQUID CHROMATOGRAPHY-)	
	ELECTROSPRAY SYSTEM AND METHOD)	
)	

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §§ 1.97-1.98

Mail Stop: Patent Application

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Alexandria, VA 22313-1450

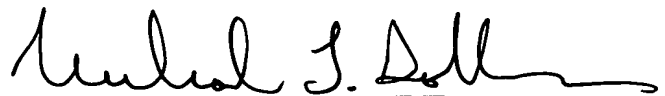
Dear Sir:

Pursuant to 37 CFR §§ 1.97-1.98, applicants hereby bring to the attention of the United States Patent and Trademark Office, the enclosed references listed on the attached PTO-1449 form.

Pursuant to 37 CFR § 1.98(d), the references identified on the attached PTO-1449 form are not provided, because these references either were previously cited by or submitted to the PTO in parent U.S. Patent Application Serial No. 10/427,145, filed April 30, 2003, of which this application claims priority under 35 USC § 120.

Respectfully submitted,

Date: March 30, 2004



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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use several sheets if necessary) (PTO-1449)	ATTY. DOCKET NO. 200701/1230	SERIAL NO. Continuation of 10/427,145
	APPLICANT Schultz et al.	
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		28	Kutter et al., "Integrated Microchip Device with Electrokinetically Controlled Solvent Mixing for Isocratic and Gradient Elution in Micellar Electrokinetic Chromatography," <u>Anal. Chem.</u> 69:5165-5171 (1997)
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	146	5,427,946	06/27/1995	Kricka et al.			
	147	5,429,734	07/04/1995	Gajar et al.			
	148	5,486,335	01/23/1996	Wilding et al.			
	149	5,498,392	03/12/1996	Wilding et al.			
	150	5,512,131	04/30/1996	Kumar et al.			
	151	5,512,451	04/30/1996	Kricka			
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		153	Kruger et al., "Durable Gold-Coated Fused Silica Capillaries for Use in Electrospray Mass Spectrometry," <u>Anal. Chem.</u> , 67:385-389 (1995)
		154	Manz et al., "Micromachining of Monocrystalline Silicon and Glass for Chemical Analysis Systems," <u>Trends in Anal. Chem.</u> , 10(5):144-149 (1991)
		155	Manz et al., "Planar Chips Technology for Miniaturization and Integration of Separation Techniques Into Monitoring Systems," <u>J. Chromatogr.</u> , 593:253-258 (1992)
		156	Manz et al., "Planar Chips Technology for Miniaturization of Separation Systems: A Developing Perspective in Chemical Monitoring," <u>Advances in Chromatography</u> , pp. 1-66 (1993)
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	159	5,877,495	03/02/1999	Takada et al.			
	160	6,005,245	12/21/1999	Sakairi et al.			
	161	6,060,705	05/09/2000	Whitehouse et al.			
	162	6,114,693	09/05/2000	Hirabayashi et al.			
	163	3,538,744	11//10/1970	Karasek et al.			
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		166	Manz et al., "Planar Chip Technology for Capillary Electrophoresis," <u>Fresenius J. Anal. Chem.</u> , 348:567-571 (1994)
		167	Moore et al., "Microchip Separations of Neutral Species Via Micellar Electrokinetic Capillary Chromatography," <u>Anal. Chem.</u> , 67:4184-4189 (1995)
		168	Nichols et al., "CE-MS for Industrial Applications Using a Liquid Junction With Ion-Spray and CF-FAB Mass Spectrometry," <u>LC-GC</u> , 10(9):676-686 (1992)
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	171	3,150,442	09/29/1964	Straw et al.			
	172	3,921,916	11/25/1975	Bassous			
	173	4,007,464	02/08/1977	Bassous et al.			
	174	4,209,696	06/24/1980	Fite			
	175	4,437,103	03/13/1984	Ikeda			
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		177	Olivares et al., "On-Line Mass Spectrometric Detection for Capillary Zone Electrophoresis," <u>Anal. Chem.</u> , 59:1230-1232 (1987)
		178	Overton et al., "Development of a Temperature Programmed Microchip, High Resolution Gas Chromatograph/Mass Spectrometer for Volatile Organic Compound Analysis," pp. 395-398
		179	Petersen, "Biomedical Applications of MEMS," <u>IEEE</u> , pp. 239-242 (1996)
		180	Raymond et al., "Continuous Sample Pretreatment Using a Free-Flow Electrophoresis Device Integrated Onto a Silicon Chip," <u>Anal. Chem.</u> , 66:2858-2865 (1994)
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	182	5,349,186	09/20/1994	Iknonmou et al.			
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	184	6,171,875 B1	01/09/2001	Silverbrook			
	185	6,245,227	06/12/2001	Moon et al.			
	186	6,432,311 B2	08/13/2002	Moon et al.			
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		190	Seiler et al., "Planar Glass Chips for Capillary Electrophoresis: Repetitive Sample Injection, Quantitation, and Separation Efficiency," <u>Anal. Chem.</u> , 65:1481-1488 (1993)
		191	Shoffner et al., "Chip PCR. I. Surface Passivation of Microfabricated Silicon-Glass Chips for PCR," <u>Nucleic Acids Res.</u> , 24(2):375-379 (1996)
		192	Sjölander et al., "Integrated Fluid Handling System for Biomolecular Interaction Analysis," <u>Anal. Chem.</u> , 63(20):2338-2345 (1991)
		193	Smith et al., "Improved Electrospray Ionization Interface for Capillary Zone Electrophoresis-Mass Spectrometry," <u>Anal. Chem.</u> , 60:1948-1952 (1988)
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		201	Valaskovic et al., "Attomole-Sensitivity Electrospray Source for Large-Molecule Mass Spectrometry," <u>Anal. Chem.</u> , 67:3802-3805 (1995)
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	207	4,728,392	03/01/1988	Miura et al.			
	208	5,294,426	03/15/1994	Sekine et al.			
	209	5,316,680	05/31/1994	Frechet et al.			
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		214	Smith et al., "New Developments in Microscale Separations and Mass Spectrometry for Biomonitoring: Capillary Electrophoresis and Electrospray Ionization Mass Spectrometry," <u>J. Toxicol. and Environ. Health</u> , 40:147-158 (1993)
		215	Andren et al., "Micro-Electrospray: Zeptomole/Attomole per Microliter Sensitivity for Peptides," <u>J. Am. Soc. Mass Spectrom.</u> , 5:867-869 (1994)
		216	Angell et al., "Silicon Micromechanical Devices," <u>Scientific American</u> , 248(4):44-55 (1983)
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		225	Peters et al., "Rigid Macroporous Polymer Monoliths," <u>Adv. Mater.</u> , 11(14):1169-1181 (1999)
		226	Snyder, <u>Introduction to Modern Liquid Chromatography</u> , John Wiley & Sons, Inc., pp. 270-272 and 277-278 (1979)
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	229	5,917,185	06/29/1999	Yeung et al.			
	230	5,969,351	10/19/1999	Nabeshima et al.			
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EXPRESS MAIL CERTIFICATE

DOCKET NO.: 200701/1230

APPLICANTS: Gary A. Schultz and Thomas N. Corso

TITLE: INTEGRATED MONOLITHIC MICROFABRICATED
DISPENSING NOZZLE AND LIQUID
CHROMATOGRAPHY-ELECTROSPRAY SYSTEM AND
METHOD

Certificate is attached to the **Information Disclosure Statement (1 page) and PTO-1449 Form (19 pages) (in duplicate) with 241 references (not attached)** of the above-named application.

EXPRESS MAIL NUMBER: EL984956764US

DATE OF DEPOSIT: March 31, 2004

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